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NOTICE OF ALLOWANCE AND FEE(S) DUE

3017

7590

04/30/2009

BARLOW, JOSEPHS & HOLMES, LTD. 101 DYER STREET 5TH FLOOR PROVIDENCE, RI 02903 EXAMINER

MAZUMDAR, SONYA

ART UNIT

PAPER NUMBER

1791 DATE MAILED: 04/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,874	12/14/2005	Patrick Ferguson	K5P909US1	3700

TITLE OF INVENTION: METHOD FOR THERMALLY PRINTING A DYE IMAGE ONTO A THREE DIMENSIONAL OBJECT USING FLEXIBLE

HEATING ELEMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including delow or directed of tions.	ng the Patent, advance onerwise in Block 1, by (rders and notification of a) specifying a new corn	maintenance fees respondence address	will be ; and/o	mailed to the current r (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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BARLOW, JOSEPHS & HOLMES, LTD. 101 DYER STREET 5TH FLOOR			I St ac tra	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
PROVIDENCE,	, RI 02903						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	DR .	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/560,874	12/14/2005	•	Patrick Ferguson			K5P909US1	3700
TITLE OF INVENTION HEATING ELEMENTS		RMALLY PRINTING A	A DYE IMAGE ONTO	A THREE DIMENS	SIONAI	OBJECT USING FL	EXIBLE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	07/30/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MAZUMDA	AR, SONYA	1791	156-285000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 			or agents OR, alterna (2) the name of a sin registered attorney o 2 registered patent at listed, no name will t	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. HE PATENT (print or type)			
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11. Comj GNEE	oletion of this form is NO	T a substitute for filing a (B) RESIDENCE: (CIT	n assignment. 'Y and STATE OR	COUNT	TRY)	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	I Individual	orporat	on or other private gro	up entity 🖵 Government
			b. Payment of Fee(s): (Pl		ny prev	viously paid issue fee s	hown above)
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)			☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	,	*	_				
	s SMALL ENTITY state		b. Applicant is no lo				R 1.2/(g)(2). e assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.	i die applicant, a reg	isicicu	attorney or agent, or the	assignee of other party in
Authorized Signature				Date			
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This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu Firginia 22313-1450. DO	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain on 1.14. This collection is on the depending upon the included the complete the complete of the compl	r retain a benefit by estimated to take 12 lividual case. Any c cer, U.S. Patent and TO THIS ADDRES	the pub minute: ommen Trader S. SEN	lic which is to file (and s to complete, including is on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/560,874	12/14/2005	Patrick Ferguson	K5P909US1	3700		
3017 75	3017 7590 04/30/2009			EXAMINER		
BARLOW, JOSE	EPHS & HOLMES, I	MAZUMDAR, SONYA				
101 DYER STREE	ET	ART UNIT	PAPER NUMBER			
5TH FLOOR PROVIDENCE, RI 02903			1791			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 53 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 53 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/560,874	FERGUSON ET AL.
Notice of Allowability	Examiner	Art Unit
	SONYA MAZUMDAR	1791
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sufficiently.	this application. If not included nication will be mailed in due course. THIS
2. ☑ The allowed claim(s) is/are <u>17-26,30 and 31</u> .		
 Acknowledgment is made of a claim for foreign priority una)	been received. been received in Application	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	es reason(s) why the oath or	
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers	•	(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s)	E - Notice of let	anned Detect Application
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		ormal Patent Application
 Information Disclosure Statements (PTO/SB/08), 	Paper No./N	mmary (PTO-413), //ail Date Amendment/Comment
Paper No./Mail Date	_	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	Statement of Reasons for Allowance	

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the closest prior art of reference is taught by Neri et al. (WO 02/072301)

Neri et al. teach a method of printing an image onto a plastic three-dimensional surface with non-planar surfaces by an image carrier sheet. A flexible membrane of silicone rubber is lowered over the three-dimensional object with the image carrier sheet thereon. A vacuum is established and the membrane, image carrier sheet, and object are heated by radiant heating elements, in a substantially U-shaped configuration, to cause the image from the carrier sheet to transfer into the surface the carrier sheet is on (abstract; paragraphs 0006-0007; Figure 6).

Neri et al. teaches that an image carrier sheet is heated to make it more flexible after a flexible membrane is lowered over the carrier sheet and prior to establishing a vacuum (abstract). However, the prior art does not teach pre-heating a flexible membrane before establishing a vacuum under the membrane to cause an image carrier sheet to conform to an object, and further heating the image carrier sheet by a flexible heating element to induce transfer from the carrier sheet to the object.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/560,874 Page 3

Art Unit: 1791

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONYA MAZUMDAR whose telephone number is (571)272-6019. The examiner can normally be reached on 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Philip Tucker can be reached on (571) 272-1095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SM

/Philip C Tucker/ Supervisory Patent Examiner, Art Unit 1791